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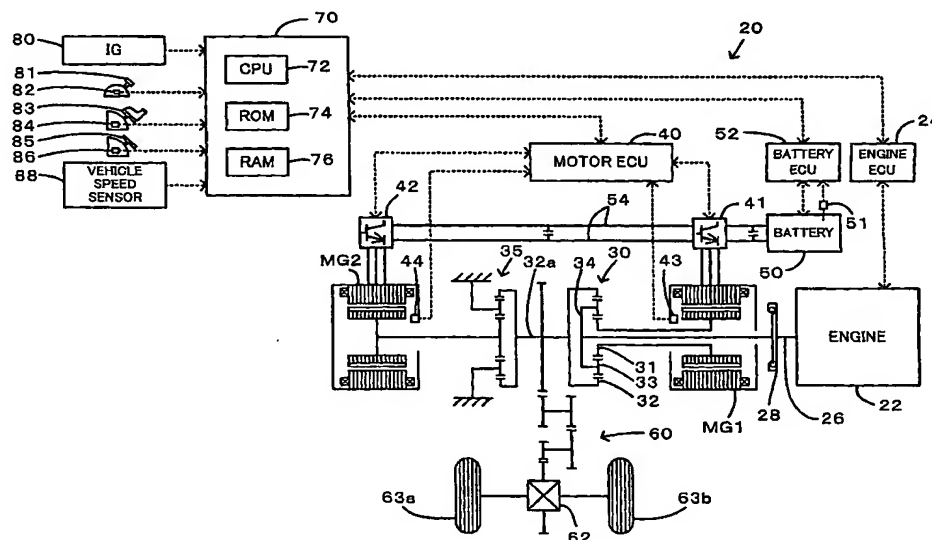
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(54) Title: POWER OUTPUT APPARATUS, METHOD OF CONTROLLING THE SAME, AND AUTOMOBILE



(57) Abstract: The technique of the invention sets an upper limit torque T_{m1max} and a lower limit torque T_{m1min} output from a motor generator, based on input and output restrictions Win and $Wout$ of a battery, a motor electric power demand $Pm2$, an auxiliary machinery electric power demand $Pcsm$, and a potential loss $Ploss$ (step S150). The technique then restricts a target revolution speed Ne^* of an engine to make an output torque of the motor generator within a range of the lower limit torque T_{m1min} to the upper limit torque T_{m1max} (steps S180 to S200). This arrangement ensures output of a torque in response to a driver's requirement, while effectively preventing the battery from being charged or discharged excessively.